

This listing of claims will replace all prior versions, and listings, of claims in the application:

**II. Listing of Claims:**

1. (Previously Presented): A dietary supplement comprising:  
a capsule comprising a nutritionally effective amount of isolated and purified galactose, glucose, mannose, N-acetylneuraminic acid, fucose, N-acetylgalactosamine, N-acetylglucosamine and xylose.
2. (Previously Presented): The dietary supplement of claim 1, wherein the supplement further comprises rice flour.
3. (Previously Presented): The dietary supplement of claim 1, wherein the composition further comprises a flowing agent and a lubricant.
4. (Previously Presented): The dietary supplement of claim 1, wherein the galactose, glucose, mannose, N-acetylneuraminic acid, fucose, N-acetylgalactosamine, N-acetylglucosamine, xylose and rice flour are present in the composition in a weight ratio of about 1:1:1:1:1:1:1:8.
5. (Previously Presented): A dietary supplement comprising:  
a nutritionally effective amount of isolated and purified acetylated mannose; and  
at least five isolated and purified saccharides selected from: galactose, glucose, mannose, xylose, N-acetylneuraminic acid, fucose, N-acetylgalactosamine, N-acetylglucosamine, arabinose, glucuronic acid, galacturonic acid, iduronic acid and arabinogalactan.
6. (Previously Presented): The dietary supplement of claim 5, wherein the five isolated and purified saccharides are powdered.
7. (Previously Presented): The dietary supplement of claim 5, wherein the five isolated and

purified saccharides are essential saccharides.

8. (Previously Presented): The dietary supplement of claim 5, wherein the five isolated and purified saccharides further comprise glucosamine and rhamnose.

9. (Previously Presented): A dietary supplement composition, comprising:  
a nutritionally effective amount of at least two powdered saccharides,  
wherein at least one of the saccharides is selected from a first group of saccharides  
consisting of: arabinogalactan, glucosamine, rhamnose and acetylated mannose; and  
wherein at least one of the saccharides is selected from a second group of saccharides  
consisting of: N-acetylneuraminic acid, fucose, N-acetylgalactosamine, N-acetylglucosamine,  
arabinose, glucuronic acid, galacturonic acid, iduronic acid, galactose, glucose, mannose and  
xylose.

10. (Previously Presented): A dietary supplement comprising:  
a nutritionally effective amount of at least six powdered monosaccharides,  
wherein at least one of the powdered saccharides is selected from a first group of  
saccharides consisting of: galactose, glucose, mannose, xylose and acetylated mannose; and  
wherein at least one of the powdered saccharides is selected from a second group of  
saccharides consisting of: N-acetylneuraminic acid, fucose, N-acetylgalactosamine, N-  
acetylglucosamine, arabinose, glucuronic acid, galacturonic acid, iduronic acid and  
arabinogalactan.

11. (Previously Presented): A dietary supplement comprising:  
a nutritionally effective amount of at least six essential saccharides.

12. (Previously Presented): The dietary supplement of claim 11, wherein at least one of the  
essential saccharides is selected from a first group of saccharides consisting of: galactose,  
glucose, mannose, xylose and acetylated mannose.

13. (Previously Presented): The dietary supplement of claim 11, wherein the essential saccharides are selected from a second group of saccharides consisting of: N-acetylneuraminic acid, fucose, N-acetylgalactosamine, N-acetylglucosamine, arabinose, glucuronic acid, galacturonic acid, iduronic acid and arabinogalactan.
14. (Previously Presented): The dietary supplement of claim 11, wherein the six essential saccharides are provided at a weight percent of between about 0.1 and about 75 weight percent.
15. (Previously Presented): The dietary supplement of claim 11, wherein the six essential saccharides are provided at a weight percent of between about 1 and about 48 weight percent.
16. (Previously Presented): The dietary supplement of claim 11, wherein the six essential saccharides are provided at a weight percent of between about 1 and about 25 weight percent.
17. (Previously Presented): The dietary supplement of claim 11, wherein the six essential saccharides are powdered.
18. (Previously Presented): The dietary supplement of claim 11, wherein the six essential saccharides are dissolved in a liquid.
19. (Previously Presented): The dietary supplement of claim 11, wherein the six essential saccharides are encapsulated.
20. (Previously Presented): The dietary supplement of claim 11, wherein the six essential saccharides comprise acetylated mannose, glucosamine, arabinogalactan, predigested gum ghatti, predigested tragacanth gum and predigested corn starch.
21. (Previously Presented): The dietary supplement of claim 11, wherein the six essential saccharides at a 1:1:1:1:1:1 ratio.

22. (Previously Presented): The dietary supplement of claim 11, wherein the six essential saccharides are selected from the group consisting of galactose, glucose, mannose, xylose and acetylated mannose, N-acetylneuraminic acid, fucose, N-acetylgalactosamine, N-acetylglucosamine, arabinose, glucuronic acid, galacturonic acid, iduronic acid and arabinogalactan.

23. (Previously Presented): The dietary supplement of claim 11, wherein the six essential saccharides are bioavailable.

24. (Previously Presented): A dietary supplement comprising:  
a composition comprising a first and a second, isolated and purified saccharide,  
wherein the first saccharide is selected from a first group of saccharides consisting of: arabinogalactan, glucosamine, rhamnose and acetylated mannose; and  
wherein the second saccharide is selected from a second group of saccharides consisting of: N-acetylneuraminic acid, fucose, N-acetylgalactosamine, N-acetylglucosamine, arabinose, glucuronic acid, galacturonic acid, iduronic acid and arabinogalactan,  
wherein the first and second saccharides are each provided in an amount sufficient to provide a nutritionally effective amount.